Meeting was called to order at approximately 3:00pm ET June 25, 2012.

Attendees

Nancy Chen (Oki Data)
Justin Hutchings (Microsoft)
Tim McCann (Konica Minolta)
Ira McDonald (High North/Samsung)
Glen Petrie (Epson)
Michael Sweet (Apple)
Paul Tykodi (TCS)
Larry Upthegrove (End-user)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Peter Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
2. Review previous minutes:
   b. Accepted as posted
3. Discussion
   a. Q: Are user association/printer registration in scope?
      - A: Probably not because there is little standardization in CPPs
   b. If we don't address user association and printer registration, then the scope is limited to the interfaces between CPM and CPS.
   c. Discuss how the other interfaces/players exist within the model
      - Abstract model for CPP, Client, Cloud Print System Service, etc.
      - Much as was done for multifunction services, extend the model to support pull print for cloud and other fan-out configurations
      - Do not address bindings for authentication/association/registration
   d. Cloud Print Service is the focus, specifically the new interfaces with the Cloud Print Manager. The Client interface is traditional SM Print service with additional authentication/association information at the protocol layer.
   e. Define:
      - Registration of capabilities (but not creation/instantiation of Cloud Print Service) is in-scope operation, goes along with status/config updates
      - How to have CPS request something from CPM?
        - Implicit event notification registration - CPM must tell CPS about config/state changes for printer and job(s)
      - Initial state of Cloud Print Service defined by model
      - Event notification
        - How to handle (per binding, or part of the abstract model?)
        - Long-running get vs. poll vs. out-of-band notification
   f. Model diagram:
      - Drop arrows for association and registration
      - Arrows for interfaces we are defining, lines without arrows for known interfaces that are not being defined
- Explain that association and registration are out-of-scope

g. Q: Are we selling ourselves short by not tackling association/registration?
   - A: No, core protocol stuff is still needed, and cloud services still evolving rapidly
   - Standardization of core model gets us the 90% solution, with vendor-specific
     interfaces accounting for a small amount of code
   - We can always address association and registration for specific cloud
     technologies afterwards

4. Sequence Diagrams:
      %20drawingsupdate20120607.pdf
   b. Remove Printer Registration and Client Association - just discuss something happens
to do it (and talk about CPS instantiation)
   c. Print Process
      - Eliminate Cloud Print Provider and Cloud Print System Services
      - Request Print jobs returns list of jobs
      - Retrieve Job with job identifier returns print job ticket, which then does a Create-
        Job to Printer
      - Retrieve Document with job and document identifier returns document data,
        which then does a Send-Document to Printer
      - Unlink interim status from client request, add more interim status updates from
        printer (to show it is happening continuously)
      - Indicate some sort of continuous polling operation/event notification
        - optional arrow from CPS to CPM "event"
   d. What about Canceled jobs?
      - Client canceled job -> CPM must poll/get event from CPS indicating the job has
        been canceled
      - Maybe CPM "get work" request can return list of jobs to cancel
      - Add separate sequence diagram:
        - Client Canceled Print Process
        - Printer Canceled Print Process
      - Maybe also add Aborted Print Process diagrams where processing fails in CPS,
        CPM, or Printer
   e. Event notification from CPS to CPM
      - Do we require for things like XMPP?
      - Or just polling?
      - Or both

Next Steps / Open Actions

• Next conference call July 16, 2012 at 3pm ET
• Action: Bill to post updated Cloud Printing Requirements and Model Interim Draft (DONE)
• Action: Bill to update the current Mapping draft (DONE)
• Action: Larry to post the further Cloud Print Sequence diagrams reflecting information
developed on the sequence spreadsheet (DONE)
• Action: Mike to provide updated use cases text for Cloud Print Model (PENDING)
• Action: Mike to provide updated design requirements for Cloud Print Model (PENDING)
• Action: Joe to update definition of visible/visibility to cover AAA (PENDING)
• Action: Ira to work with Justin on MSPS mapping (ONGOING - work started)
• Action: Mike to update PPD Mapping (ONGOING - pending table updates)